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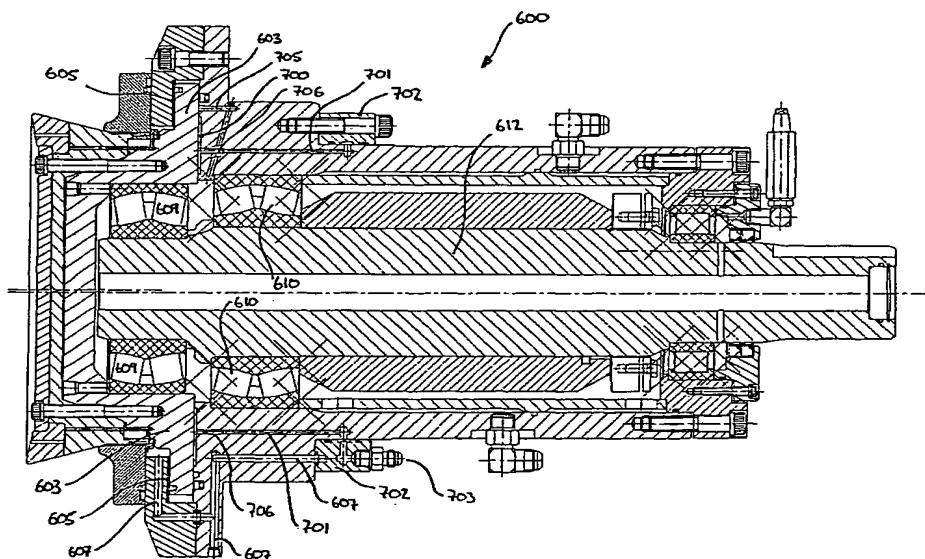
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(54) Title: **OSCILLATING DISC CUTTER WITH SPEED CONTROLLING BEARINGS**



(57) Abstract: An oscillating disc cutter (10) including a cutting disc (602) and a drive mechanism. The drive mechanism including a drive shaft (612) to effect eccentric oscillation of the cutting disc and a radial bearing (609) disposed to permit relative rotation between the drive shaft and the cutting disc. The cutter further including a hydrostatic axial bearing (700) disposed to react axial forces while accommodating induced rotation of the cutting disc when operatively engaged and to induce a rotational drag thereby limiting rotational speed of the cutting disc when free running. A water pressurised fluid bearing (605) induces a predetermined axial load in the hydrostatic bearing such that a predetermined maximum running clearance in the hydrostatic bearing is maintained.

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